

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-822 REV. 1 AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-822 REV. 7 OR LATER APPROVED REVISION

REF. TCCA STC: SH14-14
REF. FAA STC: SR03538NY
REF. ANAC STC: 2014S07-11
REF. JCAB STC: STC-372-OSA/STC-371-OSA
REF. EASA STC: 10056574

1.0 PURPOSE

The purpose of this Service Instruction is to facilitate the permanent removal of the D350-822-011 PA100 PUREair System using the DSI 9843-011 PA100 Close Out Kit.

2.0 PROCEDURE

Note: To facilitate the installation of the DSI 9843-011 PA100 Close Out Kit, it is acceptable to trim D5744-041/-3 to fit on cowl area, maintaining at least minimum fastener edge distance. Touch up the affected area using chemical film (Alodine 1200 or 1201) per MIL-DTL-5541.

1. Remove the D350-822-011 PA100 PUREair System per Section 71.3 of ICA-D350-822.
2. Remove the D5721-1 Heat Barrier from the upper cowl per Section 71.12 of ICA-D350-822.
3. Remove the D5079-1 Placards shown in Figure 1.
4. Remove the D4931-X Engine Fitting shown in Figure 8 and re-install any adapters or blanking plates required for the P2 outlet on the RH side of the engine by re-using the existing gasket, if serviceable.
5. Remove the QB21310 Transition Duct and the D5090-041 Duct Assembly if applicable per Figure 6.
6. Remove the Air Intake Seal per the Aircraft Maintenance Manual.
7. Remove the FOD Screen per Section 71.5 of ICA-D350-822 (Ref. Figure 7).
8. Transfer Drill 11 x $\phi 0.261$ " - 0.266" (G-H drill) holes from cowl to D5744-041 PA100 Close Out Plate Assy as shown in Figure 3.
9. Transfer Drill 5 x $\phi 0.261$ " - 0.266" (G-H drill) holes from air intake screen to D5744-041 PA100 Close Out Plate Assy as shown in Figure 3.
10. Transfer Drill 11 x $\phi 0.261$ " - 0.266" (G-H drill) holes from cowl to D5744-3 Retainer as shown in Figure 3.
11. Transfer Drill 1 x $\phi 0.261$ " - 0.266" (G-H drill) hole from the Air Intake Screen to D5744-9 Retainer as shown in Figure 5.
12. Install 9 x MS21047L4 anchor nuts and 2 x MS21051L4 anchor nuts onto D5744-3 Retainer as shown in Figure 4. Deburr all holes and remove any debris from the work surface. Touch up the affected area using chemical film (Alodine 1200 or 1201) per MIL-DTL-5541 prior to installing the anchor nuts.
13. Prime and paint D5744-041 PA100 Close Out Plate to match aircraft paint scheme per the Aircraft Maintenance Manual.
14. Install the D5744-041 PA100 Close Out Plate on the upper cowl per Figure 2. Torque AN4 bolts 50-70 in-lbs (5.6-7.9 N-m).

UNDER REVIEW

URF 20-505 20.01.27 (DS)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 20.01.22
CERT. NO.: SH14-14
ISSUE NO.: 2

APPROVED

A	NEW ISSUE	RF	20.01.22
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	DSW	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9843	SHEET 1 OF 9
APPROVED	VS	TITLE	SCALE
DE APPR.	CP	PA100 CLOSE OUT	NTS
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15. Bond the D5744-9 Blanking Plate to the upper cowl in the location shown in Figure 5, using a suitable adhesive (like CB200 Acrylic Structural Adhesive) per the Aircraft Maintenance Manual. Cure per manufacturer's instructions.
16. Install the Airbus p/n 350A54-1608-2 or 350A08-1607-03 or 350A08-6326-00 or 350A58-1607-07 Air Intake Screen and the 350A54-1079-01 Air Inlet Sleeve on the upper cowl per the Aircraft Maintenance Manual.
17. Install the 350A54-1201-01 Air Intake Duct and 350A54-1084-21 or 704A39-821-041 or 4-21-7933 Air Intake Seal per the Aircraft Maintenance Manual.
18. Update the Aircraft Log Book to indicate the installation of the DSI 9843-011 PA100 Close-out Kit and adjust Weight and Balance record for the aircraft with the Weight and Balance data provided in Section 3.0 of this document.

3.0 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9843-011	-27.0 lb	0 in	0 lb-in	163.35 in	-4410 in-lb
PA100 CLOSE OUT KIT	-12.2 kg	0 m	0 m-kg	4.15 m	-50.6 m-kg

4.0 PARTS LIST

The following table list the parts that are included in the DSI 9843-041 PA100 Close Out Kit.

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9843-011	PA100 CLOSE OUT KIT
1	D5744-041	PA100 CLOSE OUT PLATE ASSY
1	D5744-3	RETAINER
1	D5744-9	BLANKING PLATE
11	AN4-5A	BOLT
22	MS20426AD3-4	RIVET
9	MS21047L4	ANCHOR NUT
2	MS21051L4	ANCHOR NUT
11	NAS1149D0432J	WASHER

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REV. A
SHEET 2 OF 9

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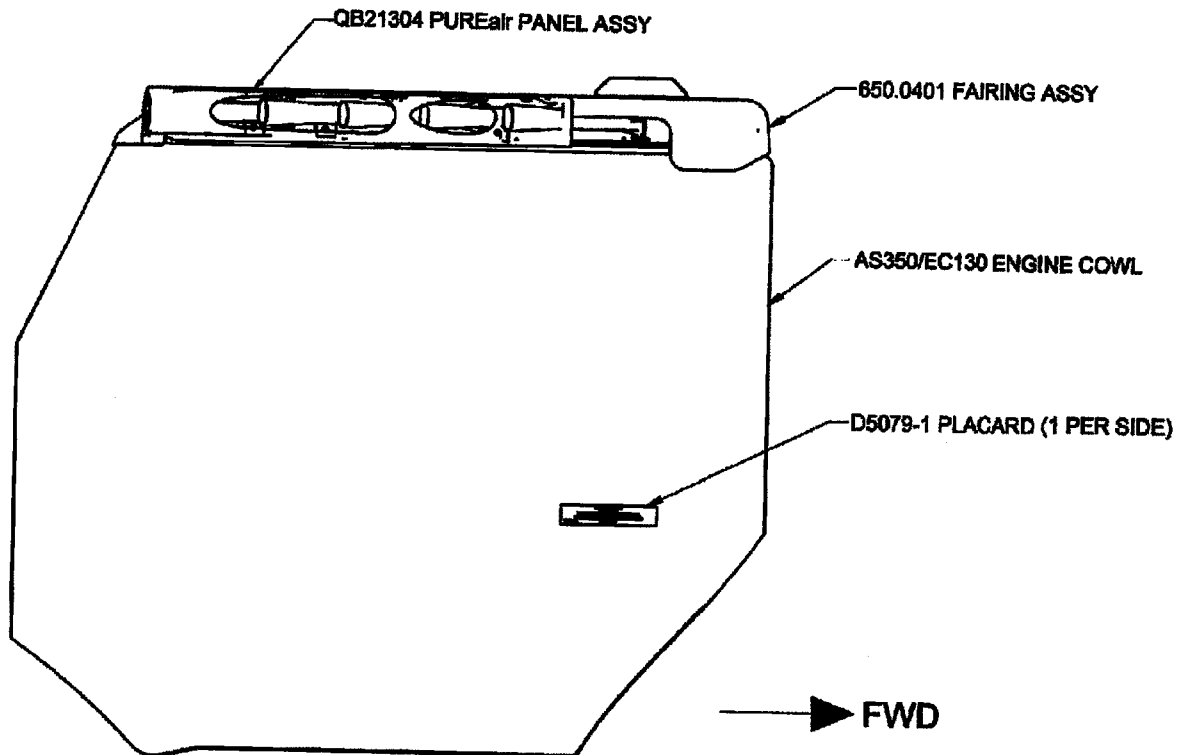


FIGURE 1 - D5079-1 PLACARD

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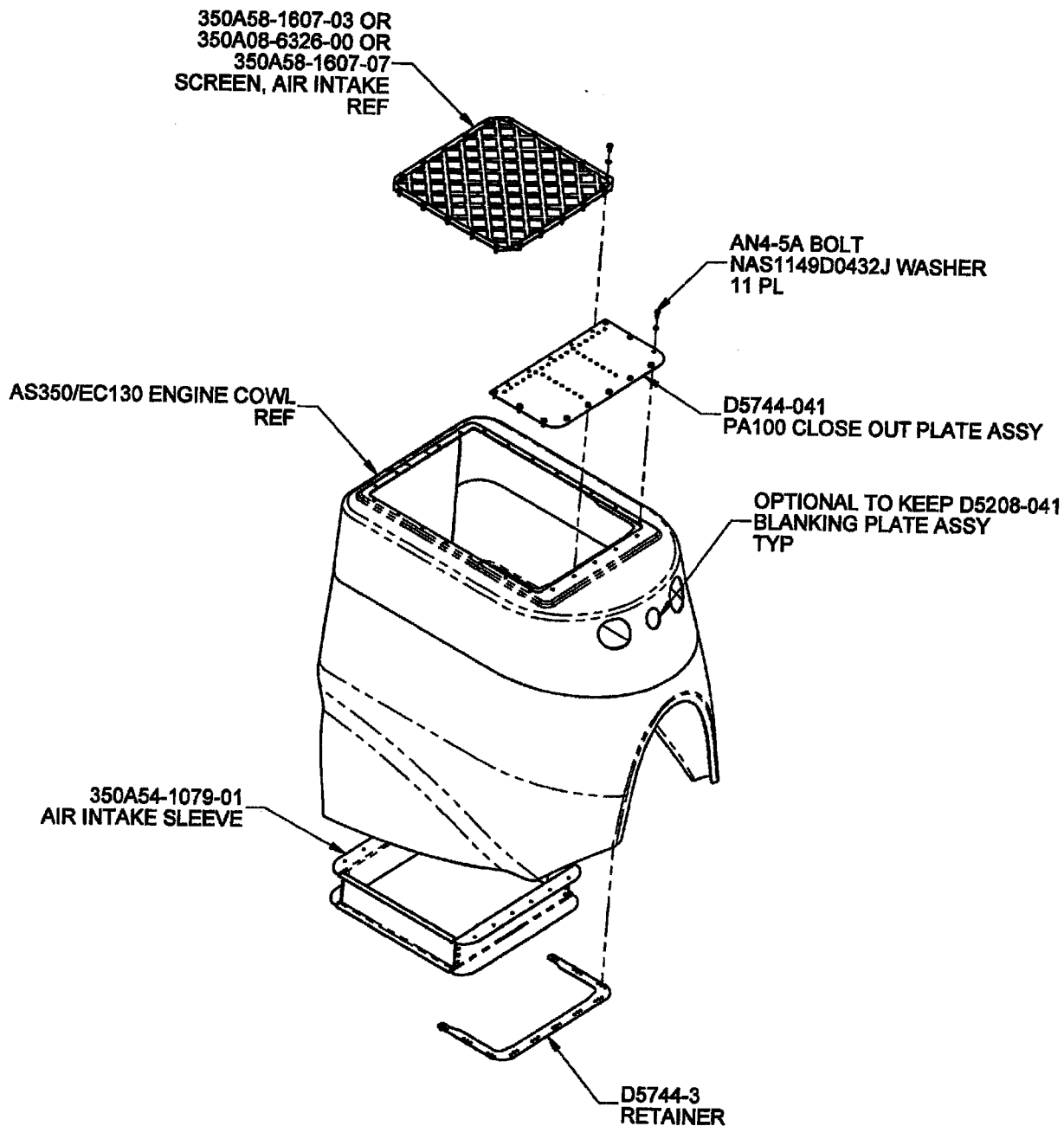


FIGURE 2 - D5744-041 CLOSE OUT PLATE ASSY & D5744-3 RETAINER INSTALLATION

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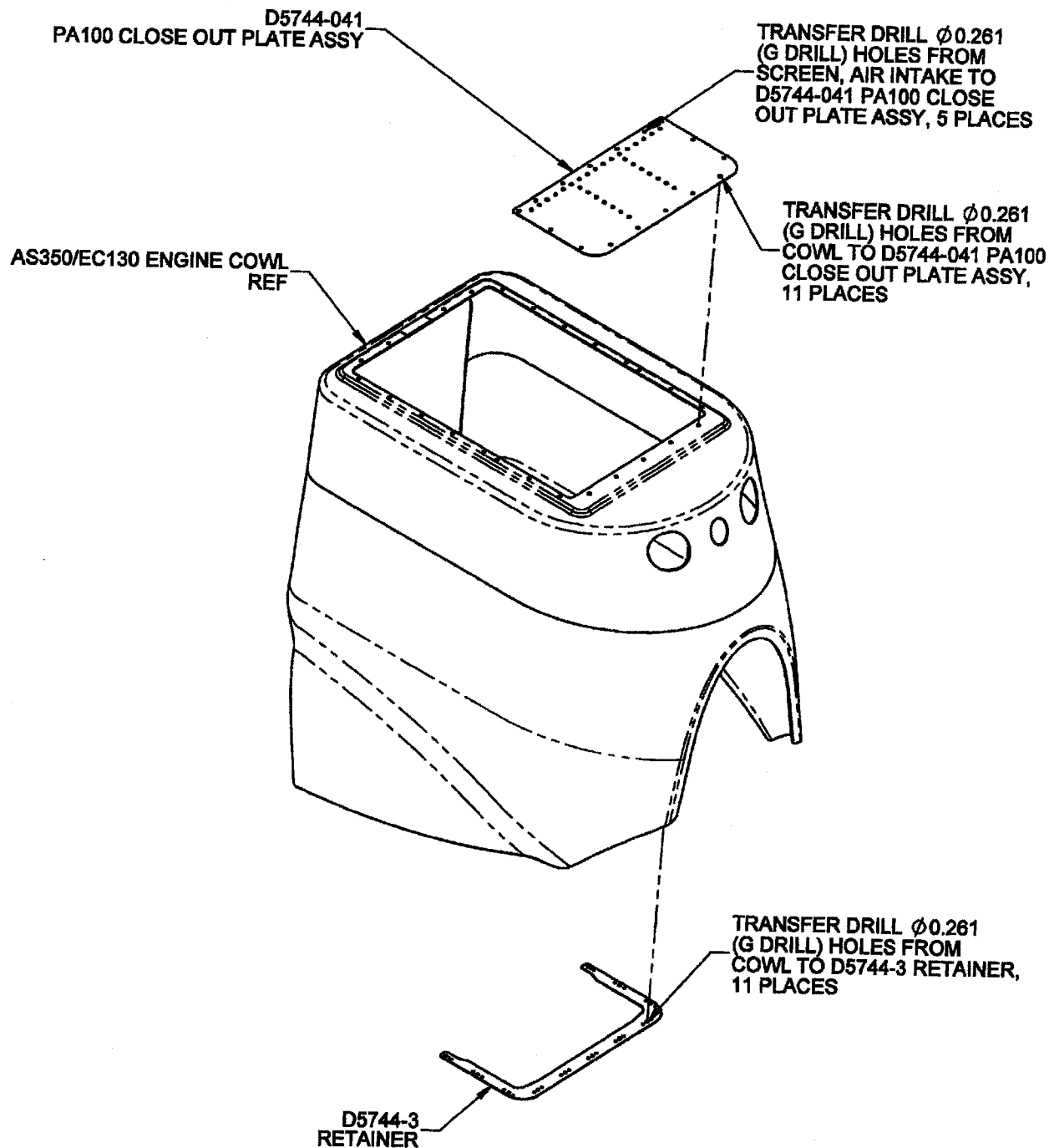


FIGURE 3 - D5744-041 CLOSE OUT PLATE ASSY & D5744-3 RETAINER HOLE TRANSFER

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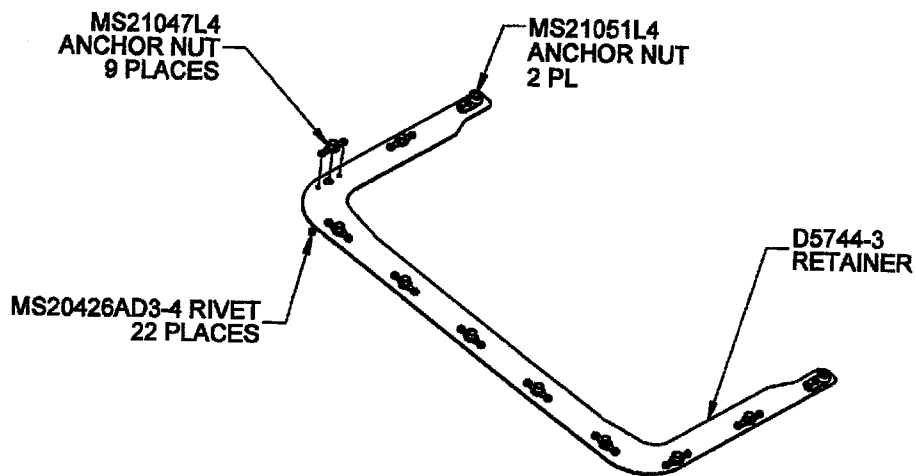


FIGURE 4 - D5744-3 RETAINER PREPARATION

TRANSFER DRILL $\phi 0.261$ (G DRILL) HOLE FROM MESH SCREEN TO D5744-9 BLANKING PLATE, 1 PLACE

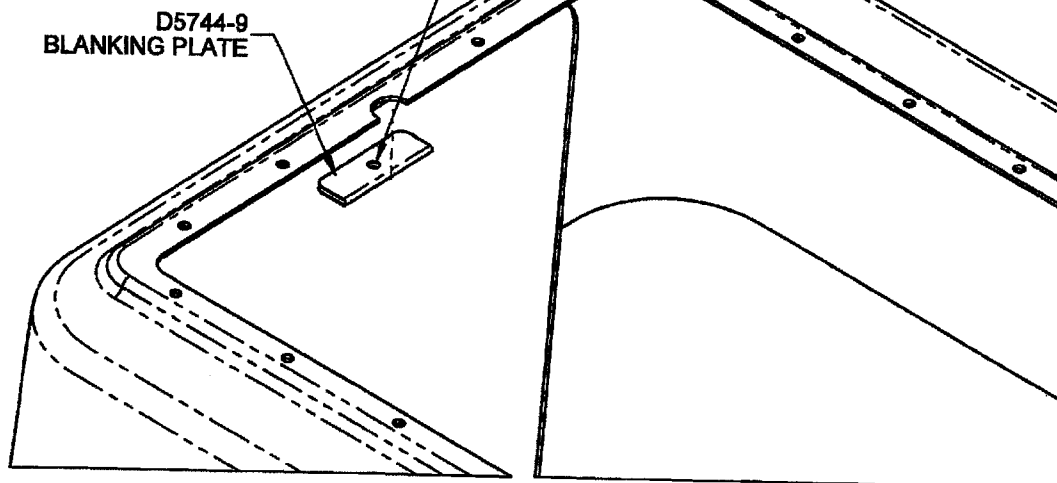


FIGURE 5 - D5744-9 BLANKING PLATE INSTALLATION

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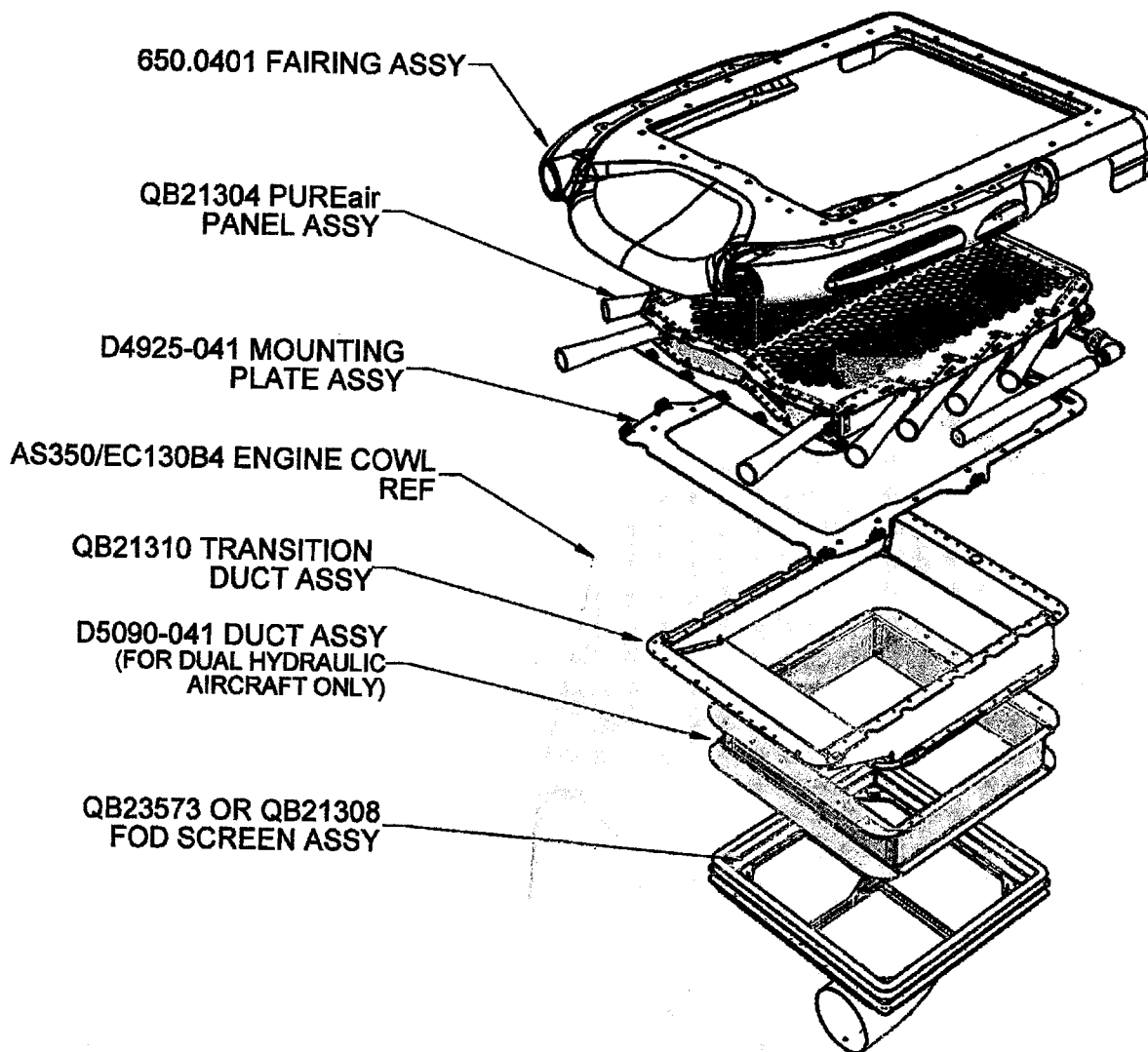
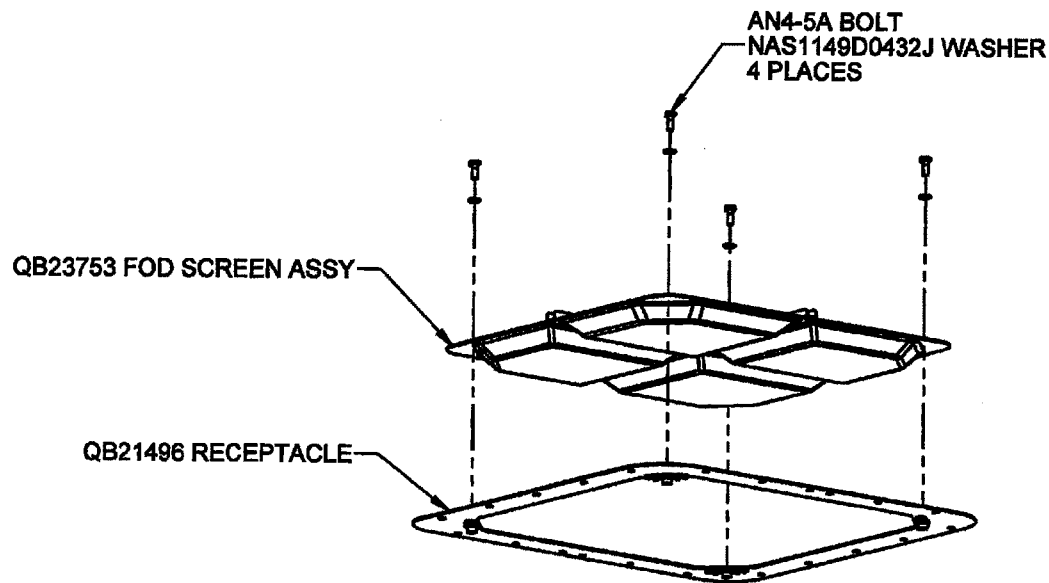


FIGURE 6 - PA100 PARTS REMOVAL

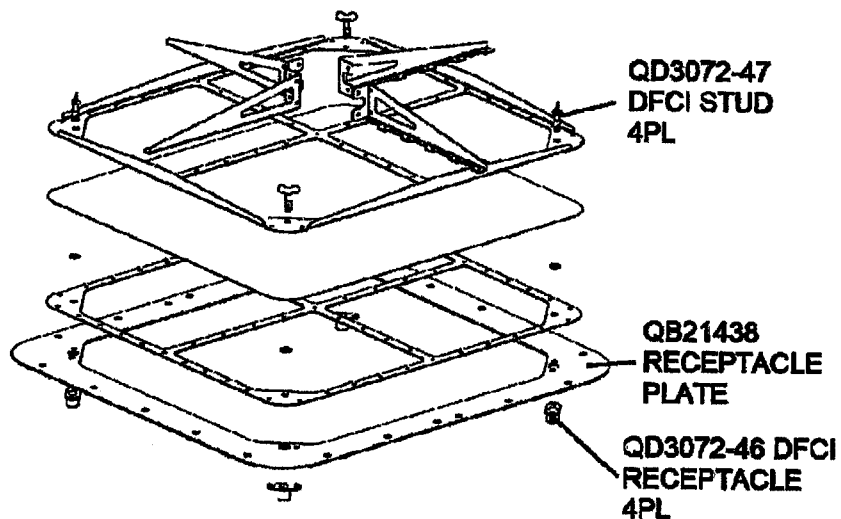
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QB23753 FOD SCREEN ASSEMBLY



QB21308 FOD SCREEN ASSEMBLY

FIGURE 7 - FOD SCREEN REMOVAL

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REMOVE D4931-X ENGINE FITTING
RE-INSTALL OEM FITTING

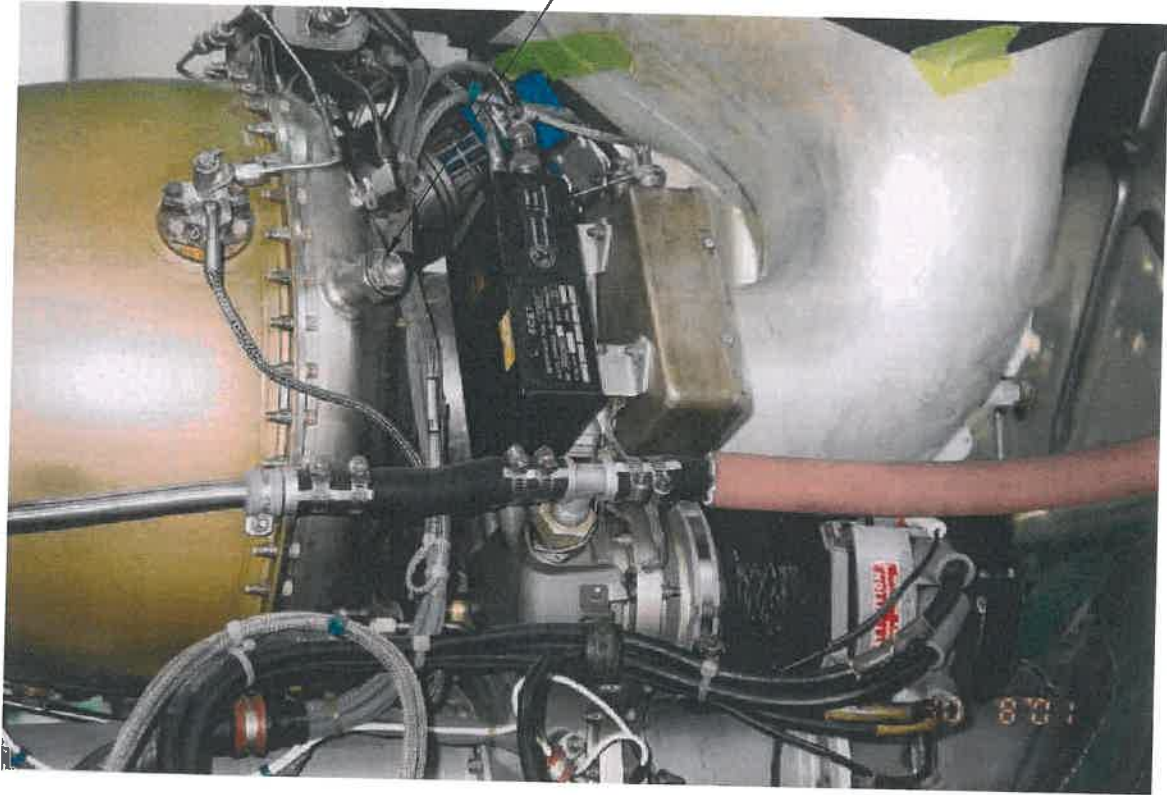


FIGURE 8 - D4931-X ENGINE FITTING REMOVAL

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